

## **Automated tracking at NGSLR (SLR2000) - nearing the final goal**

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NGSLR (SLR2000) is currently able to open-loop track LEO and LAGEOS satellites at night, completely hands-off, using only a recent, good starcal and the normal SLR predictions. Our goal, though, is to be able to track during the day, with a somewhat stale mount model. This requires using the Risley Prisms to point the laser ahead of the telescope, reducing the receiver field of view, and closing the tracking loop using the quadrant detector. The Risley point-ahead has proven more difficult than we originally thought, but we have resolved multiple problems and we are very close to getting these working. With the closed-loop tracking completed, NGSLR will be completely automated (except for health & security monitoring). A description of the closed-loop status and a brief summary of the system's automated capabilities will be given.